Training - Compressors Maintenance

COMPMAI-EN-P | **Face-to-face only** | **5 days**

This course provides a better understanding of the technology, performance and maintenance of centrifugal and positive displacement compressors

Level
Skilled

Public
- Engineers and technicians involved in centrifugal and positive displacement compressor maintenance or engineering
- Employees in charge of maintenance running of the compression systems

Objectives
Attendees will be able to implement the following skills:
- Describe the behavior and the technology of compressors
- Provide the maintaining solutions applied in their compression units
- Establish a diagnosis of the incidents and participate in the troubleshooting meetings

Pedagogical & technical resources
- Functional approach for a better understanding
- Interactive course
- Numerous examples and cases studies from the Oil & Gas production industry and analysis of manufacturer file

Assessment of achievements
Quiz

Prerequisites
No prerequisites are necessary to follow this course

Responsable
IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

TECHNOLOGY & OPERATION — 2 days

Centrifugal compressors:
- Different types of centrifugal compressors.
- Component parts and architecture of a centrifugal compressor.
- Technology of the essential components: stator, rotor, bearings, thrust bearing, seals.
- Vibrations, critical speed, dynamic balancing.
- Auxiliary equipment: lubrication system, buffer gas, balancing line...

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- Safety parameters: axial displacement, vibrations, bearing and thrust bearing temperatures, oil pressure...

Reciprocating compressors:

- Different types of reciprocating compressors.
- Component parts and construction of a reciprocating compressor.
- Technology of the essential components: cylinder, piston, valves, sealing systems, crankshaft, connecting rod...
- Auxiliary equipment: lubrication of motion parts and cylinders, cooling interstage and cooling devices systems, connections to the flare.

Rotary positive displacement compressors:

- Different types: screw, liquid ring, lobes, sliding vanes,...
- Component parts and architecture of a rotary compressor.
- Auxiliary equipment: lubrication system.
- Typical using.

MAINTENANCE (PREVENTIVE, CONDITIONAL, CORRECTIVE) 2 days

Preventive maintenance: systematic actions, routine, alignment...
Conditional maintenance: vibrations measurement, oil of lubrication analysis, thermography...
Corrective maintenance: mounting, dismounting, metrology, repairing technics.

ANALYSIS OF A MANUFACTURER DATABOOK 0.5 day

Data sheet.
Technologic choices.
P&ID reading.

TROUBLESHOOTING 0.5 day

Failure and incidents: surge, slugging, over limits functioning...

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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